

## BAB 5

### KESIMPULAN DAN SARAN

#### 5.1 Kesimpulan

1. Fungi endofit dapat diisolasi dari akar tanaman Lidah buaya (*Aloe vera* L.) dan diperoleh tujuh fungi endofit dengan kode isolat AL-1, AL-2, AL-3, AL-4, AL-5, AL-6, AL-7.
2. Empat dari tujuh isolat fungi endofit mampu menghasilkan enzim L-Asparaginase, yakni isolat dengan kode AL-2, AL-3, AL-4 dan AL-6.
3. Fungi endofit yang diperoleh diduga memiliki genus *Fusarium* (AL-4 dan AL-6) dengan ciri spesifik terdapat makrokonidia pada pengamatan mikroskopis, genus *Aspergillus* (AL-2, AL-3 dan AL-7) dengan ciri spesifik terdapat vesikel, fialid dan konidiofor, dan genus *Penicillium* (AL-1 dan AL-5) dengan ciri spesifik terdapat konidiofor, metulae, fialid dan konidiospora.

#### 5.2 Saran

Berdasarkan hasil penelitian yang telah dilakukan, maka beberapa saran adalah sebagai berikut :

1. Perlu dilakukan uji penentuan spesies dari isolat fungi endofit.
2. Perlu dilakukan purifikasi dan karakterisasi enzim dari isolat fungi endofit yang mampu menghasilkan enzim L-Asparaginase.
3. Perlu dilakukan skrining aktivitas enzim lain yang ada pada fungi endofit.

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